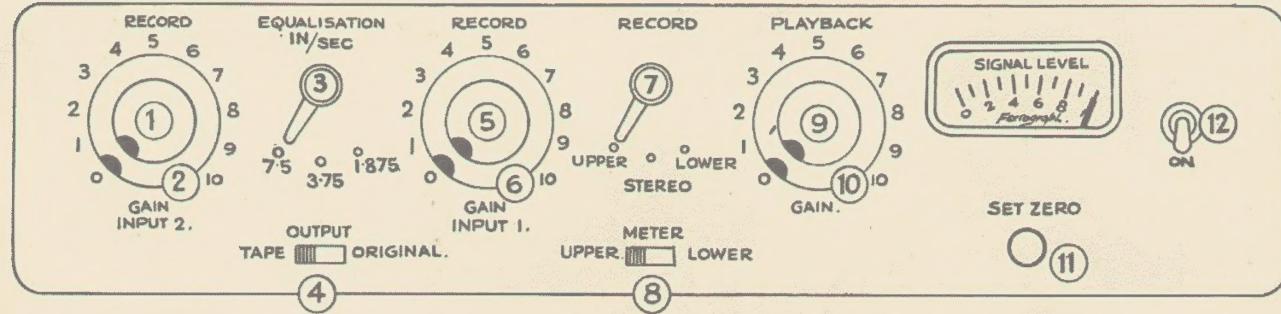
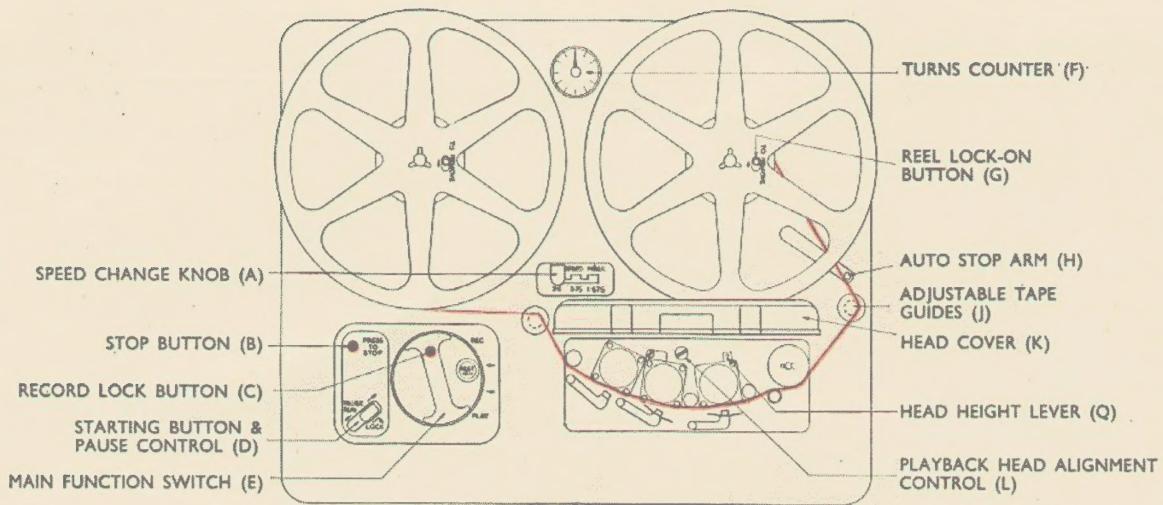


FERROGRAPH
MODELS 632 & 634

ABRIDGED
OPERATING
INSTRUCTIONS



OPERATING INSTRUCTIONS

1. CONNECTING UP

The power lead is fitted in the rear compartment. It requires a plug appropriate to the house installation, having due regard to the green earth wire.

ENSURE THAT THE POSITION OF THE VOLTAGE SELECTOR KNOB ON THE REAR PANEL CORRESPONDS WITH THE VOLTAGE SUPPLY.

Instrument is energised by switch (12) at the right of front panel, when the meter will light up immediately.

2. TO LOAD

Main function switch knob (E) should be in one of the "fast wind" positions. Open the head cover (K), drop tape between heads, pressure pads and capstan as shown in diagram. Fasten free end of tape in take-up reel by means of the tape grip provided at the reel centre. Take up any slack by rotating the reel, close the head cover and turn the main function switch to the operation desired.

3. TO RUN

Select the operating speed required by deflecting the lever knob (A) to the right for the lowest and to the left for the highest, set equalisation switch (3) to same speed. Pull the starting button (D) towards the bottom left hand corner of the control panel. Stop by momentarily depressing the button on the control panel marked "PRESS STOP" (B).

WHILST THE MAIN FUNCTION KNOB CAN BE TURNED BETWEEN THE FAST WIND POSITIONS WITHOUT STOPPING THE TAPE, THE STOP BUTTON (B) MUST BE PRESSED BEFORE SWITCHING TO OR FROM RECORD OR PLAYBACK.

4. TO PLAY BACK

After starting tape, adjust gain controls 9 and 10 for upper and lower track as required, when either or both can be heard on internal speaker. However, for quality listening an external amplifier and loudspeaker are recommended, and for stereo two of each are necessary. On plugging external amplifier into output socket, internal speaker is automatically disconnected from that track.

5. TO RECORD

Erase Link must be in position on rear panel. Connect microphone to Input 1 (2-50mV signal) and/or radio, etc., to Input 2 (35 mV or greater) and set record switch (7) to UPPER, STEREO or LOWER as required. Set all gain controls to zero and turn function switch (E) to Record, at the same time pressing record lock button (C). Meter pointer will move to left hand side of scale, and is set to zero by knob 11. Turns counter (F) can also be set to zero by knob in centre of its dial.

TO AVOID POLARISING HEAD, DO NOT TURN SWITCH 7 WHILE MAIN FUNCTION SWITCH IS IN RECORD POSITION.

Switch meter (8) to track required and advance record gain controls (5 & 1 — U.T., 6 & 2 — L.T.) to give correct balance of signals so that on peaks meter needle just reaches triangle at marking 8. If on stereo, switch meter to other track and set its recording level also. Commence recording by pulling on start knob (D), when erase head will remove any previous recordings from track(s) indicated by record switch.

AT END OF RECORDING, DO NOT REMOVE PLUGS FROM INPUT JACKS UNLESS ALL RECORD GAIN CONTROLS ARE AT ZERO, OR MAIN FUNCTION SWITCH IS TURNED FROM RECORD POSITION.

For monitoring during recording, set switch (4) to TAPE and adjust as for playback. To compare ORIGINAL with TAPE signal, operate switch (4). If headphones are used they should be medium impedance.

WHEN RECORDING WITH MICROPHONE, INTERNAL (AND EXTERNAL) LOUD-SPEAKER MUST BE SILENT (OR AT VERY LOW LEVEL) TO AVOID "HOWL" DUE TO ACOUSTIC FEEDBACK.

6. TO REWIND

Set main function switch (E) to the fast wind position next to record. Start mechanism in normal way. Tape will be rewound at high speed. Indicator clock previously set to zero at commencement of recording will gradually return to zero as this point is approached. Stop rewind by depressing stop button (B).

Fast "wind on" is provided in a similar manner at the next switch position.

7. REELS

Hublok reels are put on and removed from the drum adaptor by the small locking device (G) as indicated by arrow. When loading, tape is gripped by inserting under green portion which is deflected by pressing the red portion.

DO NOT PRESS REEL ON MOTOR SPINDLE DRUM ADAPTOR WITHOUT DEFLECTING KNOB (G) WITH THE THUMB.

8. PAUSE CONTROL

After starting up on Playback or Record, temporary stopping and starting of the tape is obtained by pushing forward the start knob (D), which can be locked in this position by moving it to the right. It is released by moving it to the left.

9. AUTOMATIC STOP

The automatic stop operates on record and playback only, and will release the starting button (D) unless the arm (H) is held off by the tape tension as shown.

10. MODEL 634

Model 634 operates exactly as Model 632 described above, when head height lever (Q) is set back (head up). With lever (Q) set forward (head down), it can be used to replay half track stereo tapes.

11. GENERAL MAINTENANCE

Keep tape transport mechanism clean. Do not allow tape deposit to build up on heads or capstan. Heads can be cleaned with brush provided. Deposit can be removed from capstan with a lightly damped cloth. Exercise great care in all cleaning operations.

12. OPERATION AND SERVICE MANUAL

Fuller details of the application and maintenance of this instrument will be found in the appropriate Ferrograph Manual.

THE FERROGRAPH COMPANY LTD.
84 BLACKFRIARS ROAD, LONDON, S.E.1.
AND AT SIMONSIDE WORKS, SOUTH SHIELDS.

H MODELS (3 $\frac{3}{4}$, 7 $\frac{1}{2}$, 15 ins/sec speeds)

These differ from the standard models only in respect of tape speeds and equalisation characteristics. Operation at 15 ins/sec requires only the additional precaution of ensuring that when starting, the start knob is held on manually until any oscillation of the auto stop arm ceases. This similarly applies when releasing the pause control.